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**PATENT**

Atty. Docket No. MIT-103

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**APPLICANTS:** Kawasaki et al. **CONFIRMATION NO.:** 6219

**SERIAL NUMBER:** 09/422,999 **GROUP NO.:** 1646

**FILING DATE:** 10/22/99 **EXAMINER:** Murphy, J.

**TITLE:** GENES INTEGRATING SIGNAL TRANSDUCTION  
PATHWAYS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT AND RESPONSE**

Sir:

This paper is responsive to the Office Action mailed on June 7, 2004, in the above-identified patent application. For the reasons discussed below, Applicants respectfully request withdrawal of the rejections made in the Office Action and allowance of the application. Applicants believe that no fee is due upon submission of this paper. However, if any fees are due, the Commissioner is hereby authorized to charge them to Deposit Account No. 20-0531.

**Amendments to the Claims** are reflected in the listing of claims beginning on page 2 of this paper.

**Remarks** begin on page 5 of this paper.